

Andrea Giammanco

List of Publications by Year in descending order

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Version: 2024-02-01

879
papers

52,878
citations

2427

97
h-index

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188
g-index

889
all docs

889
docs citations

889
times ranked

13088
citing authors

#	ARTICLE	IF	CITATIONS
1	End-to-end simulations of the MUon RAdiography of VESuvius experiment. Journal of Instrumentation, 2022, 17, C01015.	1.2	2
2	Evidence for $X(3872)$ in Pb-Pb Collisions and Studies of its Prompt Production at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2022, 128, 032001.	7.8	23
3	A portable muon telescope for multidisciplinary applications. Journal of Instrumentation, 2022, 17, C01051.	1.2	4
4	Search for $W\tilde{l}^3$ resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV using hadronic decays of Lorentz-boosted W bosons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 826, 136888.	4.1	1
5	Search for $W\tilde{l}^3$ resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV using hadronic decays of Lorentz-boosted W bosons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 826, 136888.	7.8	9
6	Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
7	Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
8	Search for heavy resonances decaying to WZ or WZ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	10
9	Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 153.	3.9	14
10	Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	1
11	Using Z Boson Events to Study Parton-Medium Interactions in Pb-Pb Collisions. Physical Review Letters, 2022, 128, 122301.	7.8	11
12	Measurement of $W\tilde{l}^3$ resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2022, 105, .	4.7	4
13	A new calibration method for charm jet identification validated with proton-proton collision events at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2022, 17, P03014.	1.2	6
14	Search for strongly interacting massive particles generating trackless jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 213.	3.9	3
15	Observation of $B \rightarrow W\tilde{l}^3$ resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2022, 105, .	4.1	5
16	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 290.	3.9	18
17	Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	13
18	Search for long-lived particles decaying into muon pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV collected with a dedicated high-rate data stream. Journal of High Energy Physics, 2022, 2022, .	4.7	5

#	ARTICLE	IF	CITATIONS
19	Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	12
20	Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
21	Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
22	Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
23	Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
24	Measurement of the inclusive $\overline{t}t$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
25	Precision measurement of the W boson decay branching fractions in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2022, 105, .	4.7	5
26	Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	4.7	2
27	Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	4.7	4
28	Search for invisible decays of the Higgs boson produced via vector boson fusion in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2022, 105, .	4.7	30
29	Observation of $B^0 \rightarrow \mu^+ \mu^- \gamma$ and $B^0 \rightarrow \mu^+ \mu^- \gamma \gamma$ decays. European Physical Journal C, 2022, 82, .	3.9	1
30	Measurement of the production cross section for $Zb\bar{b}$ jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2022, 105, .	4.7	2
31	Measurement of the production cross section for B_c Meson in Pb-Pb and pp collisions at $\sqrt{s} = 2.76$ and 5.02 TeV. Physical Review Letters, 2022, 129, .	7.8	3
32	Inclusive nonresonant multilepton probes of new phenomena at $\sqrt{s} = 13$ TeV. Physical Review D, 2022, 105, .	4.7	14
33	First Search for Exclusive Diphoton Production at High Mass with Tagged Protons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2022, 129, .	7.8	7
34	Probing Charm Quark Dynamics via Multiparticle Correlations in Pb-Pb Collisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2022, 129, .	7.8	5
35	Search for Flavor-Changing Neutral Current Interactions of the Top Quark and Higgs Boson in Final States with Two Photons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2022, 129, .	7.8	10
36	Identification of hadronic tau lepton decays using a deep neural network. Journal of Instrumentation, 2022, 17, P07023.	1.2	12

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37	Search for high-mass resonances decaying to a jet and a Lorentz-boosted resonance in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 832, 137263.	4.1	0
38	Toward Machine Learning Optimization of Experimental Design. Nuclear Physics News, 2021, 31, 25-28.	0.4	8
39	Measurements of production cross sections of polarized same-sign W boson pairs in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 812, 136018.	4.1	20
40	Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 13.	3.9	33
41	Search for top squark pair production using dilepton final states in $\sqrt{s} = 13$ TeV collision data collected at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 3.	3.9	33
42	The CMS Phase-1 pixel detector upgrade. Journal of Instrumentation, 2021, 16, P02027-P02027.	1.2	25
43	Studies of charm and beauty hadron long-range correlations in pp and pPb collisions at LHC energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 813, 136036.	4.1	13
44	Measurement of differential cross sections for Z bosons produced in association with charm jets in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	7
45	Measurements of $\sigma(\text{pp} \rightarrow \text{t} \bar{\text{t}})$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 200.	3.9	24
46	Search for nonresonant Higgs boson pair production in final states with two bottom quarks and two photons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	26
47	Measurement of differential cross sections for Z bosons produced in association with charm jets in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	5
48	Search for supersymmetry in final states with two oppositely charged same-flavor leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	28
49	Development and validation of HERWIG7 tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	3.9	12
50	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 378.	3.9	40
51	Electron and photon reconstruction and identification with the CMS experiment at the CERN LHC. Journal of Instrumentation, 2021, 16, P05014.	1.2	62
52	Measurement of the $W^{\pm}Z$ Production Cross Section in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV and Constraints on Effective Field Theory Coefficients. Physical Review Letters, 2021, 126, 252002.	4.1	12
53	Measurement of the $W^{\pm}Z$ Production Cross Section in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV and Constraints on Effective Field Theory Coefficients. Physical Review Letters, 2021, 126, 252002.	7.8	13

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73	Constraints on anomalous Higgs boson couplings to vector bosons and fermions in its production and decay using the four-lepton final state. Physical Review D, 2021, 104, .	4.7	16
74	Measurements of angular distance and momentum ratio distributions in three-jet and Z + two-jet final states in pp collisions. European Physical Journal C, 2021, 81, 852.	3.9	2
75	Observation of Forward Neutron Multiplicity Dependence of Dimuon Acoplanarity in Ultraperipheral Pb-Pb Collisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2021, 127, 122001.	7.8	16
76	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	3.9	123
77	Search for top squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Evidence for electroweak production of four charged leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	20
78	Measurements of the Electroweak Diboson Production Cross Sections in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 812, 135992.	4.1	18
79	Correlations of azimuthal anisotropy Fourier harmonics with subevent cumulants in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV. Physical Review C, 2021, 103, .	2.9	1
80	Search for chargino-neutralino production in events with Higgs and W bosons using 137 fb ⁻¹ of proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
81	Search for top squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Evidence for electroweak production of four charged leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	13
82	Measurements of the Electroweak Diboson Production Cross Sections in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Using Leptonic Decays. Physical Review Letters, 2021, 127, 191801.	7.8	6
83	Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 970.	3.9	18
84	Advances in Multi-Variate Analysis Methods for New Physics Searches at the Large Hadron Collider. Reviews in Physics, 2021, 7, 100063.	8.9	1
85	Search for new particles in events with energetic jets and large missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Measurement of differential $t\bar{t}$ production cross sections in the full kinematic range using $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135048.	4.7	36
86	Search for Long-Lived Particles Decaying in the CMS End Cap Muon Detectors in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Measurement of the single top quark and antiquark production cross sections in the t channel and their ratio in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135042.	4.7	16
87	Search for Long-Lived Particles Decaying in the CMS End Cap Muon Detectors in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2021, 127, 261804.	7.8	17
88	Observation of nuclear modifications in W^{\pm} boson production in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135048.	4.1	18
89	Search for top squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Evidence for electroweak production of four charged leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.1	28
90	Measurement of the single top quark and antiquark production cross sections in the t channel and their ratio in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135042.	4.1	12

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91	Observation of the Production of Three Massive Gauge Bosons at $\sqrt{s} = 13$ TeV in proton-proton collisions at the LHC. <i>Physical Review Letters</i> , 2020, 125, 152001.	7.8	20
92	Measurement of production cross sections of WZ and same-sign WW boson pairs in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 808, 135609.	4.1	37
93	Measurement of CKM matrix elements in single top quark channel production in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2020, 125, 102001.	2.9	10
94	Measurement of CKM matrix elements in single top quark channel production in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2020, 125, 102001.	4.1	8
95	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. <i>Computing and Software for Big Science</i> , 2020, 4, 10.	2.9	21
96	Measurement of the production cross section of W^+W^- boson pair production in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review D</i> , 2020, 102, 012001.	4.7	13
97	Measurement of the production cross section of W^+W^- boson pair production in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review D</i> , 2020, 102, 012001.	7.8	38
98	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , 2020, 15, P02027-P02027.	1.2	27
99	Measurement of the production cross section of W^+W^- boson pair production in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2020, 125, 135578.	4.1	27
100	Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , 2020, 15, P05002-P05002.	1.2	3
101	Measurement of the production cross section of W^+W^- boson pair production in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review D</i> , 2020, 101, 012001.	4.7	11
102	New long-lived particle searches in heavy-ion collisions at the LHC. <i>Physical Review D</i> , 2020, 101, 012001.	4.7	14
103	Measurement of the Jet Mass Distribution and Top Quark Mass in Hadronic Decays of Boosted Top Quarks in pp collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2020, 125, 152001.	7.8	13
104	Observation of the production of a Z boson with charm or bottom quark jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2020, 125, 152001.	7.8	14
105	Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review D</i> , 2020, 102, 012001.	4.7	10
106	Study of central exclusive "Equation missing" production in proton-proton collisions at $\sqrt{s} = 5.02$ and 13 TeV. <i>European Physical Journal C</i> , 2020, 80, 718.	3.9	7
107	Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2020, 80, 752.	3.9	23
108	Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp collisions at $\sqrt{s} = 2.76$ and 13 TeV. <i>Physical Review Letters</i> , 2020, 125, 102001.	7.8	9

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109	Pileup mitigation at CMS in 13 TeV data. Journal of Instrumentation, 2020, 15, P09018-P09018.	1.2	47
110	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	1.2	84
111	Measurements of the W boson rapidity, helicity, double-differential cross sections, and charge asymmetry in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	4.7	13
112	Measurement of the top quark Yukawa coupling from kinematic distributions in the dilepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 125, 222001.	4.7	10
113	Evidence for Top Quark Production in Nucleus-Nucleus Collisions. Physical Review Letters, 2020, 125, 222001.	7.8	7
114	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	21
115	Search for bottom-type, vectorlike quark pair production in a fully hadronic final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2020, 102, .	4.7	21
116	Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques. Journal of Instrumentation, 2020, 15, P06005-P06005.	1.2	56
117	Search for resonant pair production of Higgs bosons in the Z channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 124, 081801.	4.7	10
118	Search for a light charged Higgs boson in the Wc channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
119	Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
120	Search for dijet resonances using events with three jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 806, 135448.	4.1	6
121	Search for dijet resonances using events with three jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 806, 135502.	4.1	40
122	Search for direct pair production of supersymmetric partners to the τ lepton in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 189.	3.9	22
123	Searching for New Long-Lived Particles in Heavy-Ion Collisions at the LHC. Physical Review Letters, 2020, 124, 081801.	7.8	7
124	Multiparticle correlation studies in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV. Physical Review C, 2020, 101, .	2.9	9
125	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV. European Physical Journal C, 2020, 80, 534.	3.9	14
126	Measurement of electroweak production of a W boson in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 43.	3.9	11

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127	Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	1
128	Atmospheric muons as an imaging tool. Reviews in Physics, 2020, 5, 100038.	8.9	77
129	Search for Supersymmetry with a Compressed Mass Spectrum in Events with a Soft Lepton, a Highly Energetic Jet, and Large Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 124, 041803.	7.8	6
130	Evidence for $\text{t}\bar{\text{t}}$ production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	3.9	10
131	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 75.	3.9	78
132	Searches for physics beyond the standard model with the M_{T2} variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 3.	3.9	70
133	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.	3.9	198
134	Constraints on the $\tilde{\chi}_1^0$ versus $\tilde{\chi}_1^{\pm}$ Polarizations in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 124, 131802.	7.8	61
135	Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 124, 131802.	7.8	61
136	A measurement of the Higgs boson mass in the diphoton decay channel. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 135425.	4.1	63
137	Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
138	A multi-dimensional search for new heavy resonances decaying to boosted W boson pairs in the dijet final state at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 237.	3.9	31
139	Combined search for supersymmetry with photons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 801, 135183.	4.1	28
140	Search for a narrow resonance decaying to a pair of muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 801, 135183.	4.1	0
141	Search for a narrow resonance decaying to a pair of muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 801, 135183.	4.1	16
142	Observation of the $\tilde{b}_0 \rightarrow \tilde{t} \tilde{t}^*$ decay in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 802, 135203.	4.1	6
143	Observation of electroweak production of W^{\pm} with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135988.	4.1	21
144	Searching for long-lived particles beyond the Standard Model at the Large Hadron Collider. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 090501.	3.6	133

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145	New physics searches with heavy-ion collisions at the CERN Large Hadron Collider. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 060501.	3.6	27
146	Towards portable muography with small-area, gas-tight glass Resistive Plate Chambers. Journal of Instrumentation, 2020, 15, C10032-C10032.	1.2	10
147	Reconstruction of signal amplitudes in the CMS electromagnetic calorimeter in the presence of overlapping proton-proton interactions. Journal of Instrumentation, 2020, 15, P10002-P10002.	1.2	9
148	Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8, \text{ext}\{Te\}\text{ext}\{V\}$ with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164.	3.9	5
149	Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 370.	3.9	22
150	Measurement of $t\bar{t}$ normalised multi-differential cross sections in pp collisions at $\sqrt{s} = 13, \text{ext}\{TeV\}$, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. European Physical Journal C, 2020, 80, 1.	3.9	33
151	Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	17
152	Centrality and pseudorapidity dependence of the transverse energy density in pp collisions at $\sqrt{s} = 13, \text{ext}\{TeV\}$. Physical Review D, 2019, 100, 014001.	2.9	6
153	Search for top quark production in pp collisions at $\sqrt{s} = 13, \text{ext}\{TeV\}$. Physical Review D, 2019, 100, 014001.	4.7	10
154	Search for associated production of a Higgs boson and a single top quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 99, .	4.7	20
155	Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at $\sqrt{s} = 13, \text{ext}\{TeV\}$. European Physical Journal C, 2019, 79, 1.	3.9	9
156	Search for pair production of second-generation leptoquarks at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 99, .	4.7	32
157	Search for pair production of first-generation scalar leptoquarks at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 99, .	4.7	31
158	Measurement of exclusive ρ^0 photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}} = 5.02, \text{ext}\{TeV\}$. European Physical Journal C, 2019, 79, 702.	3.9	33
159	Search for dark matter in events with a leptoquark and missing transverse momentum in proton-proton collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 76-99.	4.1	6
160	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s} = 13, \text{ext}\{TeV\}$. European Physical Journal C, 2019, 79, 564.	3.9	50
161	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two muons and two b quarks in pp collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 398-423.	4.1	41
162	Search for supersymmetry in final states with photons and missing transverse momentum in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	8

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163	Measurement of the top quark mass in the all-jets final state at $\sqrt{s}=13$ TeV and combination with the lepton+jets channel. <i>European Physical Journal C</i> , 2019, 79, 313.	3.9	40
164	Search for long-lived particles using nonprompt jets and missing transverse momentum with proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 797, 134876.	4.1	26
165	Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 798, 134952.	4.1	17
166	Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at 13 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 798, 134985.	4.1	36
167	Search for anomalous production of W boson and a H boson in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 798, 134992.	4.1	19
168	An embedding technique to determine $I_{\mu\mu}$ backgrounds in proton-proton collision data. <i>Journal of Instrumentation</i> , 2019, 14, P06032-P06032.	1.2	12
169	Performance of missing transverse momentum reconstruction in proton-proton collisions at $\sqrt{s}=13$ TeV using the CMS detector. <i>Journal of Instrumentation</i> , 2019, 14, P07004-P07004.	1.2	83
170	Measurement of the top quark Yukawa coupling from $t\bar{t}$ kinematic distributions in the lepton+jets final state in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , 2019, 100, .	4.7	6
171	Charged-particle angular correlations in XeXe collisions at $\sqrt{s}=2.76$ TeV. <i>Physical Review C</i> , 2019, 100, .	2.9	17
172	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in $\sqrt{s}=13$ TeV collisions. <i>European Physical Journal C</i> , 2019, 79, 773.	3.9	8
173	Search for a Light Charged Higgs Boson Decaying to a W Boson and a C Meson. <i>Physical Review Letters</i> , 2019, 123, 022001.	7.8	21
174	Studies of Beauty Suppression via Nonprompt D Mesons in Pb-Pb Collisions at $\sqrt{s}=2.76$ TeV. <i>Physical Review Letters</i> , 2019, 123, 022001.	7.8	17
175	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 307.	3.9	4
176	Evidence for light-by-light scattering and searches for axion-like particles in ultraperipheral PbPb collisions at $\sqrt{s}=2.76$ TeV. <i>Physical Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 797, 134811.	4.1	87
177	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 307.	4.1	36
178	Search for Higgs and Z boson decays to J/ψ or Y pairs in the four-muon final state in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 797, 134811.	4.1	12
179	A search for pair production of new light bosons decaying into muons in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 796, 131-154.	4.1	27
180	Search for Dark Matter Particles Produced in Association with a Top Quark Pair at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2019, 122, 011803.	7.8	12

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181	Search for the Higgs Boson Decaying to Two Muons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2019, 122, 021801.	7.8	37
182	Search for supersymmetric partners of electrons and muons in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 140-166.	4.1	47
183	Measurement and interpretation of differential cross sections for Higgs boson production at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 360-366.	4.1	21
184	Search for an A' gauge boson using $Z\gamma$ events in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 345-368.	4.1	19
185	Search for the pair production of light top squarks in the e^+e^- final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
186	Measurement of associated production of a W boson and a charm quark in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 269.	3.9	35
187	Observation of prompt J/ψ meson elliptic flow in high-multiplicity pPb collisions at $\sqrt{s}=2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 791, 172-194.	4.1	21
188	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 421.	3.9	355
189	Search for supersymmetry in events with a photon, jets, b -jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 444.	3.9	11
190	Measurements of the Higgs boson width and anomalous HVV couplings from on-shell and off-shell production in the four-lepton final state. Physical Review D, 2019, 99, .	4.7	69
191	Measurements of the $pp \rightarrow WZ$ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
192	Measurements of properties of the Higgs boson decaying to a W boson pair in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 791, 96-129.	4.1	44
193	Measurement of the $t\bar{t}$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 368.	3.9	68
194	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	12
195	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 280.	3.9	29
196	Search for a standard model-like Higgs boson in the mass range between 70 and 110 GeV in the diphoton final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 320-347.	4.1	53
197	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 364.	3.9	48
198	Search for invisible decays of a Higgs boson produced through vector boson fusion in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 520-551.	4.1	46

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199	Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 152001.	7.8	102
200	Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 90.	7.8	24
201	Search for W boson decays to three charged pions. Physical Review Letters, 2019, 122, 151802.	7.8	4
202	Measurement of prompt $\tilde{\chi}(2S)$ production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 509-532.	4.1	15
203	Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 90.	3.9	34
204	Study of the underlying event in top quark pair production in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 123.	3.9	11
205	Search for rare decays of Z and Higgs bosons to J/ψ and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 94.	3.9	20
206	A portable muon telescope based on small and gas-tight resistive plate chambers. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180139.	3.4	9
207	Search for long-lived particles decaying into displaced jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 99, .	4.7	28
208	Search for $\overline{t}t\overline{H}$ production in the $\overline{t}t\overline{b}$ decay channel with leptonic $\overline{t}t$ decays in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
209	Search for Narrow H^{\pm} Resonances in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 081804.	7.8	3
210	Model-independent constraints on the CKM matrix elements $ V_{tb} $, $ V_{ts} $ and $ V_{td} $. Journal of High Energy Physics, 2019, 2019, 1.	4.7	2
211	Observation of Single Top Quark Production in Association with a Z Boson in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 081804.	7.8	30
212	Observation of Two Excited B_c States and Measurement of the B_c Stretch. Physical Review Letters, 2019, 122, 081804.	7.8	62
213	Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	12
214	Measurement of nuclear modification factors of $\tilde{\chi}(1S)$, $\tilde{\chi}(2S)$, and $\tilde{\chi}(3S)$ mesons in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 270-293.	4.7	16
215	Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 20.	3.9	18
216	Search for low-mass resonances decaying into bottom quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2019, 99, .	4.7	16

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217	Search for pair-produced three-jet resonances in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2019, 99, .	4.7	5
218	Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2019, 123, 241801. $\sqrt{s_{NN}} = 2.76 \text{ TeV}$	4.1	9
219	Search for vectorlike leptons in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2019, 100, .	4.7	34
220	Search for pair production of vectorlike quarks in the fully hadronic final state. Physical Review D, 2019, 100, .	4.7	35
221	Measurement of the top quark polarization and spin correlations in $t\bar{t}$ production in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2019, 123, 241801. $\sqrt{s} = 13 \text{ TeV}$	4.7	33
222	Constraints on anomalous Higgs boson couplings from the production of Higgs bosons decaying to WZ pairs. Physical Review D, 2019, 100, .	4.7	21
223	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2019, 123, 241801. $\sqrt{s} = 13 \text{ TeV}$	4.7	20
224	Probing the chiral magnetic wave in $PbPb$ collisions at $\sqrt{s_{NN}}=2.76$ TeV and $PbPb$ collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2019, 123, 241801. $\sqrt{s_{NN}} = 2.76 \text{ TeV}$	2.9	8
225	Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	18
226	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 893.	3.9	12
227	Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2019, 2019, 1.	4.7	54
228	Search for Physics beyond the Standard Model in Events with Overlapping Photons and Jets. Physical Review Letters, 2019, 123, 241801.	7.8	1
229	Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 886.	3.9	16
230	Search for long-lived particles using delayed photons in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2019, 100, .	4.7	14
231	Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at $\sqrt{s}=13$ TeV. Physical Review Letters, 2019, 123, 241801. $\sqrt{s} = 13 \text{ TeV}$	7.8	23
232	Search for Higgs boson pair production in the $b\bar{b}\gamma\gamma$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2019, 123, 241801. $\sqrt{s} = 13 \text{ TeV}$	4.1	40
233	Measurement of the renormalized cross section for Z boson pair production in association with jets at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 19-44.	4.7	10
234	Search for supersymmetry using Higgs boson to diphoton decays at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	4

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235	Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
236	Study of the $\mathcal{B}(\text{B}^0 \rightarrow \text{pp} \overline{\text{B}})$ decay in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	3
237	Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair. Physical Review Letters, 2018, 120, 071802.	7.8	40
238	Observation of Electroweak Production of Same-Sign W Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	7.8	86
239	Observation of Same-Sign WW Harmonics in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	7.8	39
240	Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2018, 78, 242.	3.9	10
241	Measurement of the Splitting Function in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	7.8	70
242	Measurement of quarkonium production cross sections in pp collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 251-272.	7.8	31
243	Pseudorapidity distributions of charged hadrons in proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ and 8.16 TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	8
244	Observation of the Higgs boson decay to a pair of τ leptons with the CMS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 779, 283-316.	4.1	125
245	Suppression of Excited τ States Relative to the Ground State in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	7.8	38
246	Search for Higgsino pair production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
247	Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}A_{\mu\nu}^{(1,2)}$ final states with large missing transverse momentum and two Higgs bosons decaying via $Z \rightarrow \tau\tau$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	36
248	Search for heavy resonances decaying to a top quark and a bottom quark in the lepton+jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 777, 39-63.	4.1	16
249	Search for heavy resonances decaying to a top quark and a bottom quark in the lepton+jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 777, 39-63.	4.1	16
250	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 291.	3.9	27
251	Measurements of the $\sigma(\text{pp} \rightarrow \text{Z} \rightarrow \tau\tau)$ production cross section and the $\sigma(\text{pp} \rightarrow \text{Z} \rightarrow 4\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 165.	3.9	52
252	Measurement of associated Z + charm production in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 287.	3.9	16

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253	Measurement of the inclusive $\overline{\text{mathrm}}\{\text{t}\}$ cross section in pp collisions at $\sqrt{s}=5.02$ TeV using final states with at least one charged lepton. Journal of High Energy Physics, 2018, 2018, 1.	4.7	5
254	Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	0
255	Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $s = 13 \sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	5
256	Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at $s = 13 \sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	6
257	Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	57
258	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	63
259	Measurement of differential cross sections in the kinematic angular variable $\tilde{\chi}^*$ for inclusive Z boson production in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	4
260	Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
261	Measurement of normalized differential $\overline{\text{mathrm}}\{\text{t}\}$ cross sections in the dilepton channel from pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	18
262	Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $s = 8 \sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
263	Search for ZZ resonances in the $2\hat{\alpha}, "2\hat{1}/2$ final state in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	4
264	Search for massive resonances decaying into W , WZ , b , $b\bar{b}$ and Wb final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	27
265	Search for gauge-mediated supersymmetry in events with at least one photon and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	15
266	Azimuthal anisotropy of charged particles with transverse momentum up to 100 GeV/c in PbPb collisions at $\sqrt{s_{\text{NN}}}=2.76$ and 5.02 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High Energy Physics, 2018, 760, 118-124.	4.1	11
267	Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2018, 98, .	4.7	4
268	Search for $\overline{\text{mathrm}}\{\text{t}\}\text{mathrm}\{\text{H}\}$ production in the all-jet final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
269	Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	16
270	Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11

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272	Pseudorapidity and transverse momentum dependence of flow harmonics in p and PbPb collisions. Physical Review C, 2018, 98, .	2.9	8
273	Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
274	Precision measurement of the structure of the CMS inner tracking system using nuclear interactions. Journal of Instrumentation, 2018, 13, P10034-P10034.	1.2	11
275	Measurement of the top quark mass with lepton+jets final states using \mathcal{P} collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 891.	3.9	34
276	Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	57
277	Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2018, 98, .	4.7	24
278	Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 121, 241802.	7.8	50
279	Search for long-lived particles with displaced vertices in multijet events in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2018, 98, .	4.7	17
280	Measurement of jet substructure observables in t events from proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 121, 241802.	4.7	24
281	Search for Z^0 resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
282	Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	14
283	Observation of Medium-Induced Modifications of Jet Fragmentation in Pb-Pb Collisions at $\sqrt{s}=2.76$ TeV. Physical Review Letters, 2018, 121, 242301.	7.8	32
284	Performance of reconstruction and identification of \tilde{l} , leptons decaying to hadrons and ν in pp collisions at $\sqrt{s}=13$ TeV. Journal of Instrumentation, 2018, 13, P10005-P10005.	1.2	69
285	Evidence for the Associated Production of a Single Top Quark and a Photon in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 121, 221802.	7.8	14
286	Search for third-generation scalar leptoquarks decaying to a top quark and a τ , lepton at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 707.	3.9	46
287	Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 965.	3.9	39
288	Studies of $B \rightarrow B_s \gamma$ and $B \rightarrow B_s^* \gamma$ decays. Journal of High Energy Physics, 2018, 2018, 1.		

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290	Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2q$ final states at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	8
291	Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 697.	3.9	17
292	Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e\tau$ final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	9
293	Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789.	3.9	40
294	Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 1.	3.9	9
295	Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	25
296	Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
297	Measurement of the $\sigma(\text{Z}/\gamma \rightarrow \text{au au})$ cross section in pp collisions at $\sqrt{s}=13$ TeV and validation of $\sigma(\text{Z}/\gamma \rightarrow \tau^+\tau^-)$. European Physical Journal C, 2018, 78, 708.	3.9	10
298	Search for dark matter produced in association with a Higgs boson decaying to $\tau^+\tau^-$ or $\tau^+\tau^- + \tau^0$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
299	Search for Pair-Produced Resonances Each Decaying into at Least Four Quarks in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2018, 121, 141802.	7.8	4
300	Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11
301	Search for a heavy resonance decaying into a Z boson and a vector boson in the $u\bar{u}q\bar{q}$ final state. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
302	Identification of heavy-flavour jets with the CMS detector in pp collisions at 13 TeV. Journal of Instrumentation, 2018, 13, P05011-P05011.	1.2	241
303	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in $p\bar{p}$ collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2018, 78, 701.	3.9	58
304	Measurement of prompt and nonprompt charmonium suppression in PbPb collisions at $\sqrt{s}=5.02$ TeV. European Physical Journal C, 2018, 78, 509.	3.9	83
305	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying τ , leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	38
306	Test beam demonstration of silicon microstrip modules with transverse momentum discrimination for the future CMS tracking detector. Journal of Instrumentation, 2018, 13, P03003-P03003.	1.2	4

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307	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two b quarks and two \bar{l} , leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 462-488.	4.1	43
308	Observation of Higgs Boson Decay to Bottom Quarks. Physical Review Letters, 2018, 121, 121801.	7.8	219
309	Constraints on models of scalar and vector leptoquarks decaying to a quark and a neutrino at $\sqrt{s}=13$ TeV. Physical Review D, 2018, 98, .	4.7	39
310	Electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 1.	3.9	17
311	Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
312	Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
313	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
314	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	86
315	Search for Narrow Resonances in the $b\bar{b}$ -Tagged Dijet Mass Spectrum in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 462-488.	7.8	36
316	Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 462-488.	4.1	55
317	Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 462-488.	4.1	19
318	Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in $Pb-Pb$ collisions at the CERN Large Hadron Collider. Physical Review C, 2018, 97, .	2.9	64
319	Meson Azimuthal Anisotropy in Pb-Pb Collisions at $\sqrt{s}=2.76$ TeV. Physical Review Letters, 2018, 120, 202301.	7.8	70
320	Search for pair production of excited top quarks in the lepton + jets final state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 778, 349-370.	4.1	8
321	Search for excited quarks of light and heavy flavor in $\hat{q}\hat{q}^* + \hat{q}\hat{q}^*$ jet final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 390-411.	4.1	7
322	Search for supersymmetry in proton-proton collisions at $\sqrt{s}=13$ TeV using identified top quarks. Physical Review D, 2018, 97, .	4.7	23
323	Evidence for the Higgs boson decay to a bottom quark-antiquark pair. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 501-532.	4.1	63
324	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	42

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325	Measurement of angular parameters from the decay $B_0 \rightarrow \pi^+ \pi^- \mu^+ \mu^-$ in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 440-467.	4.1	13
326	Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 440-467.	4.1	13
327	Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 440-467.	4.1	13
328	Measurement of differential cross sections for the production of top quark pairs and of additional jets in pp collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.1	13
329	Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at $\sqrt{s} = 5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 440-467.	2.9	29
330	Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at $\sqrt{s} = 5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 440-467.	4.7	30
331	Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at $\sqrt{s} = 5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 440-467.	4.7	78
332	Jet properties in PbPb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
333	Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at $\sqrt{s} = 5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 440-467.	4.1	13
334	Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at $\sqrt{s} = 5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 440-467.	4.1	37
335	Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at $\sqrt{s} = 5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 440-467.	4.1	13
336	Search for new long-lived particles at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 432-454.	4.1	24
337	Search for supersymmetry in events with one lepton and multiple jets exploiting the angular correlation between the lepton and the missing transverse momentum in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 384-409.	4.1	13
338	Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2018, 13, P06015-P06015.	1.2	180
339	Single top-quark production at the Tevatron and the LHC. Reviews of Modern Physics, 2018, 90, .	45.6	15
340	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 140.	3.9	44
341	Search for strange hadrons in high-multiplicity proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 14-39.	7.8	48
342	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 140.	3.9	44

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344	Constraining Gluon Distributions in Nuclei Using Dijets in Proton-Proton and Proton-Lead Collisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2018, 121, 062002.	7.8	22
345	Observation of $t\bar{t}H$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 120, 221801.	7.8	209
346	Search for Heavy Neutral Leptons in Events with Three Charged Leptons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 120, 221801.	7.8	160
347	Search for vectorlike light-flavor quark partners in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 120, 221801.	4.7	10
348	Search for single production of a vector-like T quark decaying to a Z boson and a top quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 574-600.	4.1	36
349	Search for a massive resonance decaying to a pair of Higgs bosons in the four b quark final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 244-269.	4.1	33
350	Search for the X production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 118, 021802.	7.8	47
351	Measurements of the $\sigma(\text{pp} \rightarrow \text{Z} \text{jet})$ production cross section and the $\text{BR}(\text{Z} \rightarrow 4\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 78, 1.		3
352	Search for Dark Matter and Supersymmetry with a Compressed Mass Spectrum in the Vector Boson Fusion Topology in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 118, 021802.	7.8	24
353	Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and combination with 8 TeV search. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 767, 147-170.	4.1	69
354	Observation of the decay $B \rightarrow \pi^0 \pi^0 (2S) K^+$ in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 66-86.		
355	Search for supersymmetry in events with one lepton and multiple jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2017, 95, .	4.7	8
356	Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 766, 268-290.	4.1	25
357	Search for parity violating supersymmetry with displaced vertices in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 118, 021802.	4.7	12
358	Measurements of the $\sigma(\text{pp} \rightarrow t\bar{t}e^+e^-)$ production cross section in lepton+jets final states in pp collisions at $\sqrt{s} = 8$ TeV and ratio of 8 to 7 TeV cross sections. European Physical Journal C, 2017, 77, 15.	3.9	34
359	Inclusive search for supersymmetry using razor variables in pp collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2017, 95, .	4.7	9
360	Measurement of the $\sigma(\text{pp} \rightarrow t\bar{t}e^+e^-)$ production cross section using events in the $e^+e^- \mu^+\mu^-$ final state in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 172.	3.9	40

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362	Search for electroweak production of charginos in final states with two \tilde{l} , leptons in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	11
363	Measurement of the production cross section of a $W\tilde{A}$ boson in association with two b jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 92.	3.9	16
364	Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 7$ and 8 TeV and search for anomalous triple gauge couplings at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 236.	3.9	37
365	Measurement of prompt and nonprompt J/ψ production in pp and pp collisions at $\sqrt{s} = 5.02$, 7 TeV. European Physical Journal C, 2017, 77, 269.	3.9	53
366	Suppression of $T(1S)$, $T(2S)$, and $T(3S)$ quarkonium states in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 357-379.	4.1	74
367	Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV. Journal of Instrumentation, 2017, 12, P02014-P02014.	1.2	216
368	A search for new phenomena in pp collisions at $\sqrt{s} = 13$ TeV in final states with missing transverse momentum and at least one jet using the α_T variable. European Physical Journal C, 2017, 77, 294.	3.9	29
369	Search for single production of a heavy vector-like T quark decaying to a Higgs boson and a top quark with a lepton and jets in the final state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 80-105.	4.1	14
370	Measurement of the cross section for electroweak production of $Z\tilde{\nu}$ in association with two jets and constraints on anomalous quartic gauge couplings in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 380-402.	4.1	34
371	The CMS trigger system. Journal of Instrumentation, 2017, 12, P01020-P01020.	1.2	307
372	Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 103-129.	4.1	35
373	Search for top squark pair production in compressed-mass-spectrum scenarios in proton-proton collisions at $\sqrt{s} = 8$ TeV using the α_T variable. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 57-80.	4.1	15
374	Search for narrow resonances in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV and combination with 8 TeV data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 57-80.	4.1	15
375	Search for dark matter production in association with a Higgs boson in pp collisions at $\sqrt{s} = 8$ TeV and constraints on dark matter and other models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 30-54.	4.1	90
376	Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 137-162.	4.1	17
377	Observation of Charge-Dependent Azimuthal Correlations in $p\text{-Pb}$ Collisions and Its Implication for the Search for the Chiral Magnetic Effect. Physical Review Letters, 2017, 118, 122301.	7.8	101
378	Evidence for collectivity in pp collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 765, 193-220.	4.1	243

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380	Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. <i>Physical Review D</i> , 2017, 96.	7.8	62
381	Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , 2017, 96.	4.7	19
382	P-Type Silicon Strip Sensors for the new CMS Tracker at HL-LHC. <i>Journal of Instrumentation</i> , 2017, 12, P06018-P06018.	1.2	24
383	Search for new physics in the monophoton final state in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	17
384	Pseudorapidity dependence of long-range two-particle correlations in pp collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , 2017, 96.	2.9	6
385	Measurement of the $R_{\text{FB}}^{\text{B}}(s)$ Meson Nuclear Modification Factor in Pb-Pb collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. <i>Physical Review D</i> , 2017, 96.	2.9	59
386	Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s}=8$ TeV and impact on parton distribution functions. <i>European Physical Journal C</i> , 2017, 77, 459.	3.9	52
387	Measurement of the jet mass in highly boosted $\overline{t}t$ events from pp collisions at $\sqrt{s}=8$ TeV. <i>European Physical Journal C</i> , 2017, 77, 467.	3.9	23
388	Search for supersymmetry in the all-hadronic final state using top quark tagging in pp collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , 2017, 96.	4.7	10
389	Search for supersymmetry in the all-hadronic final state using top quark tagging in pp collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , 2017, 96.	4.7	12
390	Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physical Review D</i> , 2017, 96.	4.7	61
391	Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2017, 119, 141802.	7.8	54
392	Study of Jet Quenching with $R_{\text{FB}}^{\text{B}}(s)$ Meson Nuclear Modification Factor in Pb-Pb and pp collisions at $\sqrt{s_{\text{NN}}}=2.76$ TeV. <i>Physical Review D</i> , 2017, 96.	7.8	32
393	Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2017, 119, 111802.	7.8	35
394	Search for standard model production of four top quarks in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 772, 336-358.	4.1	11
395	Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{\text{NN}}}=5.02$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	103
396	Measurement of the mass difference between top quark and antiquark in pp collisions at $\sqrt{s}=13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 770, 50-71.	4.1	9

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397	Search for anomalous couplings in boosted W bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 391-412.	4.1	27
398	Search for supersymmetry in events with photons and missing transverse energy in pp collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 391-412.	4.1	5
399	Search for heavy gauge $W_{\mu\nu}$ bosons in events with an energetic lepton and large missing transverse momentum at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 278-301.	4.1	31
400	Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at $\sqrt{s} = 2.76$ TeV using jet substructure techniques. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 306-329.	4.1	20
401	Search for high-mass Z resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
402	Coherent J/ψ photoproduction in ultra-peripheral PbPb collisions at $\sqrt{s} = 2.76$ TeV with the CMS experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 489-511.	4.1	17
403	Search for $t \bar{t} \tilde{A}^0$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
404	Search for single production of vector-like quarks decaying into a b quark and a W boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 634-636.	4.1	14
405	Cross section measurement of t-channel single top quark production in pp collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 759-776.	4.1	13
406	Measurement of differential cross sections for top quark pair production using the lepton+jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2017, 95, .	4.7	50
407	Search for associated production of dark matter with a Higgs boson decaying to $b \bar{b}$ or $\tau \bar{\tau}$ at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
408	Observation of Top Quark Production in Proton-Nucleus Collisions. Physical Review Letters, 2017, 119, 242001.	7.8	23
409	Observation of $Y(1S)$ pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	48
410	Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	35
411	Search for single production of vector-like quarks decaying to a Z boson and a top or a bottom quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	13
412	Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 775, 1-24.	4.1	40
413	Measurement of the semileptonic $t \bar{t} \tilde{A}^0$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	11
414	Measurements of the $pp \rightarrow W \tilde{\chi}_1^0 \tilde{\chi}_1^0$ and $pp \rightarrow Z \tilde{\chi}_1^0 \tilde{\chi}_1^0$ cross sections and limits on anomalous quartic gauge couplings at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10

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416	Search for new phenomena with the M_{T2} variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 710.	3.9	98
417	Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
418	Search for leptophobic $Z\epsilon^2$ bosons decaying into four-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 533-558.	4.1	26
419	Search for dark matter production in high-multiplicity final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 533-558.	4.1	26
420	Combination of searches for heavy resonances decaying to WW, WZ, ZZ, WH, and ZH boson pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 533-558.	4.1	26
421	Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	23
422	Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
423	Measurements of differential cross sections for associated production of a W boson and jets in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2017, 95, .	4.7	12
424	Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	23
425	Measurement of the differential inclusive B+ hadron cross sections in pp collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 435-456.	4.1	24
426	Suppression and azimuthal anisotropy of prompt and nonprompt J/ψ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.	3.9	82
427	Searches for pair production of third-generation squarks in $\sqrt{s} = 13$ TeV pp collisions. European Physical Journal C, 2017, 77, 327.	3.9	32
428	Measurement of the top quark mass using single top quark events in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 354.	3.9	23
429	Searches for pair production of third-generation squarks in $\sqrt{s} = 13$ TeV pp collisions. European Physical Journal C, 2017, 77, 327.	7.8	24
430	Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8,$ and 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	95
431	Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
432	Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 845.	3.9	38

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433	Search for Evidence of the Type-III Seesaw Mechanism in Multilepton Final States in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. Physical Review Letters, 2017, 119, 221802.	7.8	40
434	Measurement of electroweak-induced production of $W\ell^3$ with two jets in pp collisions at $\sqrt{s}=8$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
435	Searches for $W\ell^2$ bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	8
436	Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10
437	Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
438	Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
439	Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	27
440	Principal-component analysis of two-particle azimuthal correlations in PbPb and pp collisions at CMS. Physical Review C, 2017, 96, 014907.	4.7	18
441	Search for pair production of vector-like T and B quarks in single-lepton final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	18
442	Measurement of charged pion, kaon, and proton production in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2017, 96, 014005.	4.7	48
443	Measurement of vector boson scattering and constraints on anomalous quartic couplings from events with four leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2017, 96, 014005.	4.1	45
444	Search for a heavy composite Majorana neutrino in the final state with two leptons and two quarks at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 775, 315-337.	4.7	10
445	Search for top squark pair production in pp collisions at $\sqrt{s}=13$ TeV using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.	4.7	31
446	Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
447	Measurement of the $t\bar{t}\ell^+\ell^-$ production cross section using events with one lepton and at least one jet in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
448	Search for a heavy resonance decaying to a top quark and a vector-like top quark at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	5
449	Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 578.	3.9	57
450	Search for top quark partners with charge 5/3 in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	3

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470	Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	23
471	Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	18
472	Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2016, 76, 451.	3.9	55
473	Trapping in proton irradiated p+n-n+silicon sensors at fluences anticipated at the HL-LHC outer tracker. Journal of Instrumentation, 2016, 11, P04023-P04023.	1.2	8
474	Measurement of the W^+W^- cross section in pp collisions at $\sqrt{s}=8$ TeV and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401.	3.9	74
475	Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. European Physical Journal C, 2016, 76, 371.	3.9	33
476	Search for long-lived charged particles in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 94, .	4.7	73
477	Measurement of the W^+W^- cross section in pp collisions at $\sqrt{s}=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 512-534.	4.1	25
478	Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width. Journal of High Energy Physics, 2016, 2016, 1.	4.7	17
479	Search for lepton flavour violating decays of heavy resonances and quantum black holes to an $e\mu$ pair in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 317.	3.9	16
480	Search for two Higgs bosons in final states containing two photons and two bottom quarks in proton-proton collisions at 8 TeV. Physical Review D, 2016, 94, .	4.7	47
481	Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	5
482	Studies of inclusive four-jet production with two b-tagged jets in proton-proton collisions at 7 TeV. Physical Review D, 2016, 94, .	4.7	5
483	Measurement of the ZZ production cross section and Z branching fraction in pp collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 94, .	4.1	22
484	Searches for parity-violating supersymmetry in pp collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 94, .	4.7	9
485	Measurement of the integrated and differential production cross sections for high-pT top quarks in pp collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 94, .	4.7	24
486	Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in pp collisions at $\sqrt{s}=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 757, 6-31.	4.1	6

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487	Angular analysis of the decay $B_0 \rightarrow \tau^+ \tau^-$ from pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 424-448.	4.1	87
488	Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	31
489	Search for anomalous single top quark production in association with a photon in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	27
490	Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	7
491	Search for neutral resonances decaying into a Z boson and a pair of b jets or $\tau^+ \tau^-$, leptons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 369-394.	4.1	45
492	Measurement of the $Z \rightarrow \tau^+ \tau^-$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 761, 31-52.	4.1	16
493	$(\tau^+ \tau^-)$ polarizations versus particle multiplicity in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 761, 31-52.	4.1	6
494	Search for lepton flavour violating decays of the Higgs boson to $e\tau$, and $e\tau^+ \tau^-$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 763, 472-500.	4.1	44
495	Search for $Z \rightarrow \tau^+ \tau^-$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 641-662.	4.1	17
496	Search for R-parity violating decays of a top squark in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 760, 178-201.	4.1	6
497	Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
498	Search for Narrow Resonances in Dijet Final States at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2016, 117, 031802.	7.8	74
499	Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 325.	3.9	25
500	Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 439.	3.9	64
501	Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2016, 117, 051802.	7.8	73
502	Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Physical Review D, 2016, 94.	4.7	4
503	Search for $Z \rightarrow \tau^+ \tau^-$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 761, 31-52.	4.1	16

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505	Measurement of the top quark mass using charged particles in collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 93, 072002. $\langle \sigma \rangle = \langle \sigma \rangle$	4.7	30
506	Search for supersymmetry in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 93, 072002. $\langle \sigma \rangle = \langle \sigma \rangle$	4.7	13
507	Search for pair-produced vectorlike quarks in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 93, 072002. $\langle \sigma \rangle = \langle \sigma \rangle$	4.7	11
508	Search for pair-produced vectorlike quarks in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 93, 072002. $\langle \sigma \rangle = \langle \sigma \rangle$	4.7	41
509	Search for resonant production of dark matter particles in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 93, 072002. $\langle \sigma \rangle = \langle \sigma \rangle$	7.8	139
510	Search for pair production of first and second generation leptons in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 93, 072002. $\langle \sigma \rangle = \langle \sigma \rangle$	4.7	61
511	Search for pair production of first and second generation leptons in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 93, 072002. $\langle \sigma \rangle = \langle \sigma \rangle$	4.7	43
512	Measurement of the charge asymmetry in top quark pair production in collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 93, 072002. $\langle \sigma \rangle = \langle \sigma \rangle$	4.7	24
513	Search for dark matter and unparticles produced in association with a Z boson in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 93, 072002. $\langle \sigma \rangle = \langle \sigma \rangle$	4.7	24
514	Measurement of the top quark mass using proton-proton data at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 93, 072002. $\langle \sigma \rangle = \langle \sigma \rangle$	4.7	377
515	Search for dark matter and unparticles produced in association with a Z boson in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 93, 072002. $\langle \sigma \rangle = \langle \sigma \rangle$	7.8	20
516	Measurement of the Top Quark Pair Production Cross Section in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. Physical Review Letters, 2016, 116, 052002. $\langle \sigma \rangle = \langle \sigma \rangle$	7.8	34
517	Search for supersymmetry in electroweak production with photons and large missing transverse energy in pp collisions at $s=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and Hadron Physics, 2016, 357, 103-110. $\langle \sigma \rangle = \langle \sigma \rangle$	4.1	6
518	Combined search for anomalous pseudoscalar HVV couplings in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2016, 93, 072002. $\langle \sigma \rangle = \langle \sigma \rangle$		

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523	Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{\text{NN}}} = 5.02, \text{TeV}$. European Physical Journal C, 2016, 76, 372.	3.9	29
524	Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
525	Measurement of the $t\bar{t}$ production cross section in the $e\bar{e}\gamma$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	41
526	Search for new physics with the M_{T2} variable in all-jets final states produced in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	17
527	Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
528	Evidence for exclusive $\hat{t}\bar{t}W + W\hat{a}^{\pm}$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	42
529	Search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV in the single-lepton final state using the sum of masses of large-radius jets. Journal of High Energy Physics, 2016, 2016, 1.	4.7	14
530	Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s} = 8, \text{TeV}$. European Physical Journal C, 2016, 76, 460.	3.9	18
531	Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	20
532	Phenomenological MSSM interpretation of CMS searches in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	12
533	Measurement of the mass of the top quark in decays with a J/ψ meson in pp collisions at 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	6
534	Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s} = 2.76, \text{TeV}$. European Physical Journal C, 2016, 76, 1.	3.9	26
535	Measurement of $t\bar{t}$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8, \text{TeV}$. European Physical Journal C, 2016, 76, 379.	3.9	34
536	Measurement of the differential cross section and charge asymmetry for inclusive $p\bar{p} \rightarrow W^{\pm} + X$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.	3.9	83
537	Single top quark production at the LHC. Reviews in Physics, 2016, 1, 1-12.	8.9	24
538	Observation of top quark pairs produced in association with a vector boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	23
539	Search for $W\hat{a}^{\pm}tb$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	3
540	Correlations between jets and charged particles in PbPb and pp collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	29

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541	Search for the production of an excited bottom quark decaying to tW in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2016, 2016, 1.	4.7	5

542	Search for excited leptons in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2016, 2016, 1.	4.7	16
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#	ARTICLE	IF	CITATIONS
559	and differential measurements of the charge asymmetry in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 1.	4.1	30
560	Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 1.	4.7	16
561	Measurement of top quark polarisation in t-channel single top quark production. Journal of High Energy Physics, 2016, 2016, 1.	4.7	15
562	Search for heavy Majorana neutrinos in $e^{\pm}e^{\pm}+$ jets and $e^{\pm}\nu_{\tau}+$ jets events in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	35
563	Search for Narrow Resonances Decaying to Dijets in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. Physical Review Letters, 2016, 116, 071801.	7.8	114
564	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into l, ν , leptons in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
565	Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 13.	3.9	62
566	Searches for a heavy scalar boson H decaying to a pair of 125 GeV Higgs bosons hh or for a heavy pseudoscalar boson A decaying to Zh, in the final states with $h \rightarrow l, \nu$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 217-244.	4.1	53
567	Search for exotic decays of a Higgs boson into undetectable particles and one or more photons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 363-388.	4.1	13
568	Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	8
569	Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 154-175.	4.1	57
570	Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 560-582.	4.1	87
571	Evidence for transverse-momentum- and pseudorapidity-dependent event-plane fluctuations in PbPb and pPb collisions. Physical Review C, 2015, 92, .	2.9	140
572	Search for the standard model Higgs boson produced through vector boson fusion and decaying to $b\bar{b}$. Physical Review D, 2015, 92, .	4.7	43
573	Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2015, 92, .	4.7	7
574	Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2015, 91, .	4.7	73
575	Study of final-state radiation in decays of Z bosons produced in pp collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2015, 91, .	4.7	5
576	Measurement of diffractive dissociation cross sections in pp collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2015, 92, .	4.7	46

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577	Constraints on the spin-parity and anomalous couplings of the Higgs boson in proton collisions at 7 and 8 TeV. Physical Review D, 2015, 92, .	4.7	185
578	Search for supersymmetry with photons in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2015, 92, .	4.7	7
579	Limits on the Higgs boson lifetime and width from its decay to four charged leptons. Physical Review D, 2015, 92, .	4.7	55
580	Evidence for Collective Multiparticle Correlations in $p\text{-Pb}$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV and the 125 GeV Higgs boson in $p\text{-Pb}$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2015, 115, 012301.	7.8	177
581	Search for a Z boson and the 125 GeV Higgs boson in $p\text{-Pb}$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2015, 115, 012301.	4.1	54
582	Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	24
583	Search for lepton-flavour-violating decays of the Higgs boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 337-362.	4.1	193
584	Search for pair-produced resonances decaying to jet pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 98-119.	4.1	63
585	Search for pair-produced resonances decaying to jet pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 98-119.	4.1	68
586	Searches for supersymmetry using the M T2 variable in hadronic events produced in pp collisions at 8 TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	34
587	Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	37
588	Search for the production of dark matter in association with top-quark pairs in the single-lepton final state in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	20
589	Search for a charged Higgs boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	81
590	Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	12
591	Search for a light charged Higgs boson decaying to $c\bar{c}$ in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1-37.	4.7	44
592	Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure. Journal of High Energy Physics, 2015, 2015, 1.	4.7	24
593	Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	1
594	Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. Journal of High Energy Physics, 2015, 2015, 1.	4.7	92

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596	Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 494-519.	4.1	57
597	Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV. European Physical Journal C, 2015, 75, 212.	3.9	541
598	Measurement of the $Z\bar{\nu}\nu$ production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings. Journal of High Energy Physics, 2015, 2015, 1.	4.7	11
599	Measurement of the inclusive 3-jet production differential cross section in proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. European Physical Journal C, 2015, 75, 186.	3.9	68
600	Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 542.	3.9	191
601	Measurements of the $Z\bar{\nu}\nu$ production cross sections in the $2\ell 2\bar{\nu}$ channel in proton collisions at $\sqrt{s} = 7$ and $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 511.	3.9	32
602	Measurement of the Z boson differential cross section in transverse momentum and rapidity in proton collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 749, 187-209.	4.1	63
603	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. Journal of High Energy Physics, 2015, 2015, 1.	4.7	30
604	Long-range two-particle correlations of strange hadrons with charged particles in pPb and PbPb collisions at LHC energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 742, 200-224.	4.1	77
605	Search for new resonances decaying via WZ to leptons in proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 383-402.	4.1	16
606	Measurement of the production cross section ratio $\sigma(\bar{\nu}\nu Z)/\sigma(\bar{\nu}\nu)$ in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 383-402.	4.1	52
607	Search for anomalous triple gauge couplings in four-lepton final states at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 383-402.	4.1	57
608	Measurement of the production cross section ratio $\sigma(\bar{\nu}\nu Z)/\sigma(\bar{\nu}\nu)$ in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 383-402.	4.1	16
609	Search for stealth supersymmetry in events with jets, either photons or leptons, and low missing transverse momentum in pp collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 503-525.	4.1	18
610	Search for a standard model-like Higgs boson in the $2\ell 2\bar{\nu}$ channel in proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 184-207.	4.1	67
611	Searches for supersymmetry based on events with b jets and four W bosons in pp collisions at 8 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 745, 5-28.	4.1	21
612	Search for quark contact interactions and extra spatial dimensions using dijet angular distributions in proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 746, 79-99.	4.1	24

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613	Measurement of the cross section ratio $\frac{\sigma(\text{pp} \rightarrow \text{Z} \rightarrow \text{ee})}{\sigma(\text{pp} \rightarrow \text{Z} \rightarrow \text{ee}) + \sigma(\text{pp} \rightarrow \text{Z} \rightarrow \text{ee})}$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2015, 91, .	4.1	15
614	Measurements of jet multiplicity and differential production cross sections of $\text{Z} \rightarrow \text{ee}$ events in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2015, 91, .	4.7	46
615	Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2015, 91, .	4.7	90
616	Search for long-lived particles that decay into final states containing two electrons or two muons in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2015, 91, .	4.7	70
617	Search for Monotop Signatures in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2015, 114, 101801.	7.8	36
618	Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method. European Physical Journal C, 2015, 75, 251.	3.9	73
619	Search for Displaced Supersymmetry in Events with an Electron and a Muon with Large Impact Parameters. Physical Review Letters, 2015, 114, 061801.	7.8	44
620	Measurement of $\sigma(\text{pp} \rightarrow \text{Z} \rightarrow \text{ee})$ and $\sigma(\text{pp} \rightarrow \text{Z} \rightarrow \text{ee})$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2015, 91, .	7.8	60
621	Study of Vector Boson Scattering and Search for New Physics in Events with Two Same-Sign Leptons and Two Jets. Physical Review Letters, 2015, 114, 051801.	7.8	80
622	Search for resonances and quantum black holes using dijet mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2015, 91, .	4.7	167
623	Search for displaced supersymmetry using factor variables in events with $\text{Z} \rightarrow \text{ee}$ and tagged jets in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2015, 91, .	4.7	46
624	Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 66.	3.9	31
625	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 147.	3.9	88
626	Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 151.	3.9	44
627	Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	26
628	Measurement of the ratio of the production cross sections times branching fractions of $\text{B} \rightarrow \text{K}^* \ell^+ \ell^-$ and $\text{B} \rightarrow \text{K}^* \ell^+ \ell^-$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	17
629	Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	4.7	46
630	Study of Z production in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV in the dimuon and dielectron decay channels. Journal of High Energy Physics, 2015, 2015, 1.	4.7	27

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636	Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2015, 75, 288.	3.9	54
637	Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$. European Physical Journal C, 2015, 75, 237.	3.9	58
638	Study of W boson production in pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$. European Physical Journal C, 2015, 75, 237.	3.9	42
639	Search for narrow high-mass resonances in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ decaying to a Z and a Higgs boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 748, 255-277.	4.1	34
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644	Search for supersymmetry with razor variables in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. Physical Review D, 2014, 90, 072004.	4.7	15
645	Search for heavy Higgs bosons in two-Higgs-doublet models and for τ decay using multilepton and diphoton final states in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. Physical Review D, 2014, 90, 072004.	4.7	69
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658	Search for anomalous production of events with three or more leptons in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2014, 112, 161802.	7.8	94
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663	Measurement of the muon charge asymmetry in inclusive Z boson production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2014, 90, 034004.	4.7	64
664	Search for the standard model Higgs boson produced in association with a top quark and decaying to bottom quarks. Physical Review D, 2014, 90, 034004.	4.7	83
665	Measurement of the muon charge asymmetry in inclusive Z boson production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2014, 90, 034004.	4.7	83
666	Search for the standard model Higgs boson produced in association with a top quark and decaying to bottom quarks. Physical Review D, 2014, 90, 034004.	4.7	83

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670	Measurement of four-jet production in proton-proton collisions at $\sqrt{s} = 0.5$ TeV. Physical Review D, 2014, 89, .	4.7	40
671	Measurement of the properties of a Higgs boson in the four-lepton final state. Physical Review D, 2014, 89, .	4.7	299
672	Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1.	4.7	51
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684	Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2014, 89, .	4.1	20

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685	ment of the ratio $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:mi mathvariant="script" \rangle B \langle \text{mml:mi} \rangle \langle \text{mml:mo stretchy="false" \rangle (\langle \text{mml:mo} \rangle \langle \text{mml:mi mathvariant="normal" \rangle t \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle T_j \text{ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 stretchy="false" \rangle / \langle \text{mml:mo} \rangle \langle \text{mml:mi mathvariant="script" \rangle B \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle$		

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707	Search for the associated production of the Higgs boson with a top-quark pair. , 2014, 2014, 1.	0.4	31
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720	Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	33

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740	Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV	4.1	9
741	Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV	4.1	81
742	Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV	4.1	34
743	Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV		

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760	Measurements of differential jet cross sections in proton-proton collisions at $\sqrt{s}=7\text{ TeV}$. Physical Review Letters, 2013, 111, 221803.	4.7	115
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770	Search for New Physics with Same-Sign Isolated Dilepton Events with Jets and Missing Transverse Energy. Physical Review Letters, 2012, 109, 071803.	7.8	97
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772	Search for a light pseudoscalar Higgs boson in the Dimuon Decay Channel in pp Collisions at $\sqrt{s}=7\text{ TeV}$. Physical Review Letters, 2012, 109, 071803.	7.8	95
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786	Search for stopped long-lived particles produced in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	17
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790	Search for supersymmetry in hadronic final states using M_{T2} in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	95
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795	Measurement of the single-top-quark t-channel cross section in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	83
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802	Search for narrow resonances in dilepton mass spectra in pp collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 714, 158-179.	4.7	108
803	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	33
804	Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	26
805	Search for signatures of extra dimensions in the diphoton mass spectrum at the Large Hadron Collider. Physical Review Letters, 2012, 108, 111801.	4.1	25
806	Search for heavy lepton partners of neutrinos in proton-proton collisions in the context of the type III seesaw mechanism. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 718, 348-368.	4.1	36
807	Search for Signatures of Extra Dimensions in the Diphoton Mass Spectrum at the Large Hadron Collider. Physical Review Letters, 2012, 108, 111801.	7.8	63
808	$\tilde{\chi}^0$ and $\tilde{\chi}^{\pm}(2S)$ production in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	81
809	Search for the standard model Higgs boson in the $H\rightarrow ZZ\rightarrow 4\ell$ channel in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	26
810	Search for microscopic black holes in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	34

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811	Measurement of the inclusive production cross sections for forward jets and for dijet events with one forward and one central jet in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	16
812	Combined results of searches for the standard model Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 26-48.	4.7	127
813	Measurement of isolated photon production in pp and PbPb collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 26-48.	4.7	89
814	Search for the standard model Higgs boson decaying to bottom quarks in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 256-277.	4.7	122
815	Search for the standard model Higgs boson decaying to two photons in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 403-425.	4.7	122
816	Jet momentum dependence of jet quenching in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 712, 176-187.	4.1	148
817	Study of high-p T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	369
818	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	181
819	Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	58
820	Measurement of the production cross section for pairs of isolated photons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	26
821	Measurement of the differential cross section for isolated prompt photon production in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2011, 84.	4.7	45
822	Measurement of the Cross Section with $B \rightarrow 0$ in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 107, 052302.	4.7	65
823	Measurement of the Cross Section with $B \rightarrow 0$ in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 107, 052302.	4.7	35
824	Observation and studies of jet quenching in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2011, 84.	2.9	455
825	Indications of Suppression of Excited States in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 106, 201804.	7.8	153
826	Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 201804.	7.8	54
827	Search for resonances in the dijet mass spectrum from 7 TeV pp collisions at CMS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 123-142.	4.1	118

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829	Prompt and non-prompt J/ψ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2011, 71, 1.	3.9	135
830	Measurement of the $\text{Br}(\tau \rightarrow \mu \nu)$ production cross section in pp collisions at $\sqrt{s}=7$ TeV using the kinematic properties of events with leptons and jets. European Physical Journal C, 2011, 71, 1.	3.9	37
831	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	122
832	Measurement of $\overline{B} \rightarrow B$ angular correlations based on secondary vertex reconstruction at $\sqrt{s} = 7, \sqrt{7}$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	32
833	Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $\sqrt{s} = 7, \sqrt{7}$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	59
834	Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC. Journal of High Energy Physics, 2011, 2011, 1.	4.7	46
835	Measurement of the $t\bar{t}$ production cross section and the top quark mass in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	53
836	Long-range and short-range dihadron angular correlations in central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	65
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841	Measurement of the Drell-Yan cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	36
842	Measurement of the inclusive W and Z production cross sections in pp collisions at $\sqrt{s} = 7$ TeV with the CMS experiment. Journal of High Energy Physics, 2011, 2011, 1.	4.7	158
843	Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	25
844	First measurement of the cross section for top-quark pair production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 424-443.	4.1	90
845	Search for supersymmetry in pp collisions at 7 TeV in events with jets and missing transverse energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 698, 196-218.	4.1	171
846	Measurement of $W+W\gamma$ production and search for the Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 699, 25-47.	4.1	101

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848	Measurement of the Isolated Prompt Photon Production Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 212301.	7.8	80
849	Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy. Physical Review Letters, 2011, 107, 221804.	7.8	208
850	Study of Z Boson Production in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 106, 212301.	7.8	80
851	Search for Supersymmetry in pp Collisions at $\sqrt{s} = 7$ TeV in Events with Two Photons and Missing Transverse Energy. Physical Review Letters, 2011, 106, 211802.	7.8	47
852	Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC. Physical Review D, 2011, 84, .	4.7	51
853	Search for New Physics with a Monojet and Missing Transverse Energy in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 201804.	7.8	53
854	Measurement of the Inclusive Jet Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 107, 212301.	7.8	59
855	Search for Supersymmetry in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 211801.	7.8	125
856	Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, .	7.8	61
857	Search for Stopped Gluinos in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, .	7.8	9
858	Dijet Azimuthal Decorrelations in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 122003.	7.8	74
859	Channel Single Top Quark Production Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 122003.	7.8	60
860	Search for Stopped Gluinos in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 011801.	7.8	70
861	Search for Stopped Gluinos in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 011801.	7.8	41
862	PARTICLE IDENTIFICATION BY IONIZATION ENERGY LOSS IN THE CMS SILICON STRIP TRACKER. International Journal of Modern Physics E, 2011, 20, 1646-1650.	1.0	2
863	Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Physical Review Letters, 2011, 2011, 1.		5

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866	CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192.	3.9	120
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868	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Journal of High Energy Physics, 2010, 2010, 1.	4.7	497
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872	Transverse-Momentum and Pseudorapidity Distributions of Charged Hadrons in pp Collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2010, 105, 022002.	7.8	400
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